BRUHATH BANGALORE MAHANAGARA PALIKE

YALAHANKA ELECTRICAL DIVISION

PRE MEASUREMENT BOOK

Name of work:- - Upgradation/emergency repairs to the Crematorium at Hebbal, Kempapura Ward-No 07

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PRE MEASUREMENT BOOK

Name of work: :-Upgradation/emergency repairs to the Crematorium at Hebbal, Kempapura Ward-No 07

Name of Contractror of nature of Agency:- M/s S.S.G Electricals

Job Code No:- **007-19-000103**

Ref no and Date of commencement of work:-EE/Ele/YZ/WO/000023/20-21 Date:19/06/2020

Measurement Book No: 2570/19-20 **Page No:** 256952 to 09514.

Bill NO :-

Sl. No.	Description of item		Unit	Present Measurements Qty	Tender Full Rate	Cost
1	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A.2 X 25 + 1 X 25 SQ.MM KPWD ELE SR 2014-15		Per Mtr	997	140.00	139580.00
1	Hebbala Crematorium AB cable					
2	New Pole No 01 TONew Pole No 02	28 Mtrs				
3	New Pole No 02 TONew Pole No 03	28 Mtrs				
4	New Pole No 03 TONew Pole No 04	25 Mtrs				
5	New Pole No 04 TONew Pole No 05	45 Mtrs				
6	New Pole No 05 TONew Pole No 06	25 Mtrs				
7	New Pole No 06 TONew Pole No 07	18 Mtrs				
8	New Pole No 04 TOUp to Timer box control wire	35 Mtrs				
	Vishwanagara colony burrial ground Ward no 03					
9	RCC pole TO Tubular pole mains wire	65 Mtrs				
	BEL road TO Gnagamma circle road					
10	VA/11/TC/96/BEL/MR/08/S TOVA/11/TC/96/BEL/MR/09/S	30 Mtrs				
11	VA/11/TC/96/BEL/MR/09/S TOVA/11/TC/96/BEL/MR/10/S	30 Mtrs				
12	VA/11/TC/96/BEL/MR/10/S TOVA/11/TC/96/BEL/MR/11/S	30 Mtrs				
13	VA/11/TC/96/BEL/MR/11/S TOVA/11/TC/96/BEL/MR/12/S	30 Mtrs				
14	VA/11/TC/96/BEL/MR/12/S TOVA/11/TC/96/BEL/MR/13/S	30 Mtrs				
15	VA/11/TC/96/BEL/MR/13/S TOVA/11/TC/96/BEL/MR/14/S	30 Mtrs				
16	VA/11/TC/96/BEL/MR/14/S TOVA/11/TC/96/BEL/MR/15/S	30 Mtrs				
17	VA/11/TC/96/BEL/MR/15/S TOVA/11/TC/96/BEL/MR/16/S	30 Mtrs				
18	VA/11/TC/96/BEL/MR/16/S TOVA/11/TC/96/BEL/MR/17/S	30 Mtrs				
19	VA/11/TC/96/BEL/MR/17/S TOVA/11/TC/96/BEL/MR/18/S	30 Mtrs				
	5th phase MIG & LIG Ward no 02 Yelahanka New Town (AB Cable)					
20	KE/02/Y5/05/00/TC/150/11/S TONew pole Pole No 01	60 Mtrs				
21	New pole Pole No 01 TONew pole Pole No 02	60 Mtrs				
22	New pole Pole No 02 TONew pole Pole No 03	60 Mtrs				
23	KE/02/Y5/06/00/TC/03/S TOKE/02/Y5/07/00/TC/21/S	40 Mtrs				
24	KE/02/Y5/07/00/TC/21/S toKE/02/Y5/07/00/TC/20/S	40 Mtrs				
25	KE/02/Y5/07/00/TC/20/S toKE/02/Y5/07/00/TC/19/S	40 Mtrs				
26	KE/02/Y5/07/00/TC/19/S toKE/02/Y5/07/00/TC/18/S	40 Mtrs				
27	KE/02/Y5/05/00/TC/08/S toKE/02/Y5/07/00/TC/09/S	40 Mtrs				
28	KE/02/Y5/05/00/TC/06/S toKE/02/Y5/07/00/TC/05/S	40 Mtrs				
29	KE/02/Y5/05/00/TC/05/S toKE/02/Y5/07/00/TC/07/S	40 Mtrs				
	Total 1029 Mtrs					

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2	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE 100Amps 25kA.26/5.14.1		Each	1	4000.00	4000.0
3	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop-Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets.200mmx200mmx98mm		Each	1	1900.00	1900.00
4	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.4 core 16 sqmm40/6.4.4		Mtrs	696	130.00	90480.00
5	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. 6 sqmm to 16 sqmm		Mtrs	696	30.00	20880.00
	Ganesha park M S Palya Ward No 11					
	Panal Board TO New Pole Pole No 01	20 Mtrs				
	New Poll Pole No 01 TO New Poll Pole No 02	35 Mtrs				
	New Poll Pole No 02 TO New Poll Pole No 03	30 Mtrs				
	New Poll Pole No 03 TO New Poll Pole No 04	35 Mtrs				
	New Poll Pole No 04 TO New Poll Pole No 05	30 Mtrs				
	New Poll Pole No 05 TO New Poll Pole No 06	30 Mtrs				
	New Poll Pole No 06 TO New Poll Pole No 07	30 Mtrs				
	New Poll Pole No 07 TO New Poll Pole No 08	30 Mtrs				
	New Poll Pole No 08 TO New Poll Pole No 09	35 Mtrs				
	New Poll Pole No 09 TO New Poll Pole No 10	30 Mtrs				
	New Poll Pole No 10 TO New Poll Pole No 11	30 Mtrs				
	New Poll Pole No 11 TO New Poll Pole No 12	15 Mtrs				
	New Poll Pole No 12 TO New Poll Pole No 13	30 Mtrs				
	New Poll Pole No 13 TO New Poll Pole No 14	15 Mtrs				
	New Poll Pole No 14 TO New Poll Pole No 15	25 Mtrs				
	New Poll Pole No 15 TO New Poll Pole No 16	16 Mtrs				
	Allalasandra railway bridge					
	Panal board TO SLVES/04/BVR/TC28/26/2/S 2 Runs x 55 = 110 Mtrs	110 Mtrs				

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	Around Animal birth control Mediagrahara Crematoroium premisies 3 Spans x 50 mtrs = 150 mtrs	150 mtrs				
	Total 696 Mtrs					
5	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etcIn soil (ordinary).,complete.41/6.6.1		Mtrs	498	70.00	34860.00
7	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etcAsphalt cutting.,complete.41/6.6.4		Mtrs	148	100.00	14800.00
8	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and Copper conductor single core cable in open or consealed system of wiring.I Group A Materials.6 sqmm 6/2.3.3		Mtrs	90	60.00	5400.00
9	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Powerconsumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED SourceLED Streetlight LED Streetlight 70watts.KPWD ELE SR Page-66/12.8.3		Each	13	5300.00	68900.00
	New Pole Pole No 01	Tubular poles				
	New Pole Pole No 02	Tubular poles				
	New Pole Pole No 03	Tubular poles				
	New Pole Pole No 04	Tubular poles				
	New Pole Pole No 05	Tubular poles				
	New Pole Pole No 06	Tubular poles				
	New Pole Pole No 07	Tubular poles				
	Infront of Portic Right side	Wall				
	Infront of Portic Left side	Wall				
	Generator	Wall				
	Scrubber Room	Wall				

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12	MCECHS L/o park 1st phase Shivaramakarantha Nagara Jakkur	2 Nos				
	Total 13 Nos					
10	Supplying and fixing telescopic M.S. bracket fabricated by using 0.5m length 4" dia telescopic M. S. pipe, with 2" dia 1.5m long M. S. bracket and are welded with suitable angle, using 6mm thick M. S. sheet, grip bolts & nuts, as required, suitable for 9 to 12 Mtrs. M. S. tubular pole, with necessary two coats of painting, with all other accessories.Single bracket 1.5 Mtr. Length Page-79/14.4.1		Each	6	1200.00	7200.00
11	Thiristor based single/ Three phase smart street light control and monitoring system Remotely control and and monitorable smart street light system by using web or mobile application .smart control system has hardware ruggedness over field issues like line cross, line short, lighting and any other irregularities in voltage. It has some features like 1.Remote lighting management.2.Precise lighting turnoff.3.Load ballancing.4.Load power regulation.5.Status tracking. It works on the basis of some of these features 1) Main Control Unit (Mother board) : Handles controlling , data handling and other communication process. 2) Communication unit: GSM/GPRS quad bandwith RS232 interface wireless communication unit 3) Gate Driver Unit: Firing angle controllable board for driving the thyristor 4) Switching Thyristor: SCR 110 AMPS dual thyristor modules for switching 5)Embedded Firmware: Firmware to control , handle , process the data and communicate it wirelessly.6) Metal Enclosure : IP66 weather prof metal enclosure. 7) transformers: Customized step down transformers for various purposes.8) Wiring and other device assembly components.		No	1	36500.00	36500.00
	Crematorium street Lights					
	Total Rs					**424500.0**
	Add GST Item No 2 to 10 Rs 248420.00 @ 12%					29810.40
	Total Rs					**454310.4**

CERTIFICATE:

1.This is certify that the work done is saticefactorily.
2.This is certify that the bill amount calimed in this bill does not claimed in any of the previous bill.

Junior Engineer(Elec)
Yalahanka Division

Yalahanka Division

Executive Engineer
Electrical Division
Yelahanka Zone BBMP
Byatarayanapura, Bangalore-92